Missouri

State Fleet Efficiency and Alternative Fuel Program

Annual Report
State Fiscal Year 2022







Dru BuntinDirector

Purpose

The Fuel Conservation for State Vehicles Program, Sections 414.400-414.417 RSMo, established guidelines for Missouri state agencies to reduce state agency vehicle fleet fuel consumption, and promote the use of alternative fuels. All state agencies are required to report their progress annually to the Department of Natural Resources for the development of the Missouri State Fleet Efficiency and Alternative Fuels Program Annual Report.

Pursuant to Section 414.406 RSMo, please find the state fiscal year 2022 report on state fleet efficiency and alternative fuels use enclosed. Copies have also been provided to the Commissioner of Administration, the Secretary of the Senate, the Clerk of the House of Representatives and the chairman of each committee of jurisdiction of the General Assembly in accordance with the statute.

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I. Executive Summary

The Division of Energy has compiled the annual state fleet report which includes annual fuel consumption, number of vehicles operated, vehicle miles traveled, average fleet fuel economy, estimated cost savings, and the state's use of alternative fuels. In FY 2021, the Office of Administration incorporated a new fleet management system, FleetWave®, which was used to gather agency vehicle data. This report includes data on light-duty vehicles that are defined as vehicles under 8,500 pounds gross vehicle weight rating. Fleet data submitted to the department by the reporting agencies is provided in Appendix D. This report contains data supplied for fiscal year (FY) 2022, July 1, 2021, through June 30, 2022.

State agencies operated a total of 10,396 vehicles during fiscal year 2022 (Table 3), of which 3,992 qualified to meet the vehicle fuel efficiency and alternative fuel requirements (eligible vehicles) as described in the statutes. The remaining 6,404 vehicles were reported as exempt from meeting those requirements (exempt vehicles). For the eligible vehicles, agencies reported logging a total of 37,436,995 miles and using 930,475 gallons of gasoline; 14,421 gallons of diesel; 858,449 gallons of 85 percent ethanol (E85), including E85 used in exempt vehicles; 280 kilowatt hours (kWh) of electricity (69 gasoline gallon equivalents or GGE); 1,027 gallons of propane, including propane in exempt vehicles; and zero cubic feet of Compressed Natural Gas (CNG). In FY 2022, state employees drove 11.5 percent more state fleet miles than in FY 2021.

Utilizing the new fleet management system, FleetWave®, allowed for more comprehensive capturing of fuel purchase data. Reported gasoline usage increased by 14.7 percent while reported E85 usage increased by 6.8 percent; electric vehicles consumed 11.1 percent less kWh of electricity. The combined total of biodiesel used by state agencies in exempt vehicles during the reporting period was equivalent to 1,018,259 gallons of biodiesel blended at the 20 percent level.

The National Highway Traffic Safety Administration (NHTSA) is required by the Energy Independence and Security Act of 2007 (EISA) to set a minimum fuel economy standard for domestically-manufactured passenger cars in addition to the attribute-based passenger car standard¹. The agency's estimates for the model year (MY) 2022 Corporate Average Fuel Efficiency (CAFE) standards are provided in the Average Fleet Fuel Economy section of this report. For MY 2022 vehicles, the Missouri state fleet exceeded the CAFE standard for light-duty trucks, but did not meet the standard for passenger cars.

The Office of Administration utilized waiver authority, authorized in Section 414.412.1 RSMo, and clarified through a Memorandum of Understanding between the Office of Administration, the Department of Economic Development and the Department of Natural Resources in 2018, for vehicle classes in which alternative fuel vehicles are unable to be acquired or cannot be operated within statutory cost parameters. However, existing alternative fuel vehicles being utilized in the state fleet, are still subject to the requirement in 414.400.2 RSMo.

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¹ Energy Independence and Security Act, 42 U.S.C. § 152 (2017).

II. Annual Fuel Consumption

Table 1 shows the annual fuel consumption reported by state agencies for state-owned vehicles operated during FY 2022.

Table 1 FY 2022 Fuel Consumption					
Eligible Exempt All State Fuel Type Vehicles Vehicles Vehicles					
Gasoline (gallons)	930,475	2,793,234	3,723,709		
Diesel (gallons) 14,421 2,900,933 2,915,354					
Alternative Fuel (GGE) *biodiesel is included as B100	546,830	262,417	809,247		

Shown in Table 2 are the annual fuel cost numbers that directly correspond to the fuel consumption numbers shown in Table 1.

Table 2 FY 2022 Fuel Cost						
Fuel Type	Eligible Vehicles	Exempt Vehicles	All State Vehicles			
Gasoline	\$3,110,557	\$7,843,639	\$10,954,196			
Diesel	\$55,441	\$9,784,173	\$9,839,614			
Alternative Fuel	\$2,544,539	\$874,659	\$3,419,198			
Total	\$5,710,537	\$18,502,471	\$24,213,008			

Table 3 shows the number of state-owned vehicles operated by state agencies in FY 2022. The numbers shown include all vehicles acquired, in continuous service, and retired from state service during the period.

Table 3 FY 2022 Number of Vehicles Operated					
Vehicle Type	Eligible Vehicles	Exempt Vehicles	All State Vehicles		
Gasoline	1,000	2,659	3,659		
Diesel	11	2,300	2,311		
Alternative Fuel	2,981	1,445	4,426		
Total	3,992	6,404	10,396		

During FY 2022, the vehicle miles traveled in eligible state vehicles were 4,360,993 in gasoline and hybrid vehicles, 99,368 in diesel vehicles, and 32,973,155 in AFVs.

III. Average Fleet Fuel Economy

The statute requires that each agency's overall vehicle fleet fuel efficiency for eligible state vehicles meet or exceed the standards set by the federal government.^{2,3}

The rating system developed for measuring vehicle fuel efficiency referenced above, called CAFE, is a comprehensive fuel efficiency rating system that was developed to measure the vehicle fuel efficiency of vehicles sold in the United States⁴. Because CAFE is an average, a company can sell vehicles that fall below the CAFE standards as long as the company's overall averages stay within the standards.

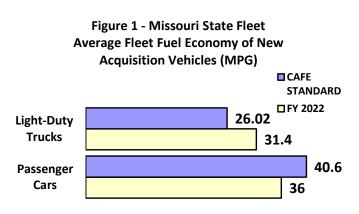
Per federal rules, starting with model year (MY) 2012 vehicles, automakers were required to reduce fleet-wide greenhouse gas emissions by approximately five percent each year³ and improve fleet-wide fuel economy to an estimated 40.6 mpg by MY 2022⁵.

For Model Year 2022 vehicles, the following are the CAFE standards:

- 40.3 mpg for MY 2021 passenger cars⁵,
- 26.02 mpg for MY 2021 light-duty trucks,

Acquisitions that are included in the computation of the average fleet fuel economy are only new vehicle acquisitions.

As shown in Figure 1, state agencies, reporting an average CAFE rating of 36 mpg for cars purchased, did not meet the federal CAFE standard for new passenger cars. Agencies did however exceed the federal standard with new acquisitions of light-duty trucks, with newly purchased trucks that earned an overall average CAFE rating of 31.4 mpg. Despite failing to meet the federal CAFE standard for new passenger cars, all agencies made purchases that, on average, exceeded CAFE standards. For additional information, the CAFE ratings earned by each agency and the total ratings earned by the entire state fleet are shown in the fuel economy tables in Appendix C.



² 414.400.2 RSMo

³ Average Fuel Economy Standards, 49 U.S.C. § 32902 (2020).

⁴ Energy Policy and Conservation Act, 42 U.S.C. §§ 6272-6273, 6294 (2020).

⁵ Fuel Economy Standards, 49 C.F.R. § 531.5 (2020).

⁵ Station wagons are included under the passenger car category while light-duty trucks include pickups, sport utility vehicles (SUVs) and vans.

Overall, as shown in Figure 2, state hybrid light-duty trucks had an average of 2 mpg more than the state's other gasoline-powered light-duty trucks. State hybrid passenger cars had an average of 16 mpg more than that of other gasoline-powered passenger cars operated by the state fleet.

Figure 2 - Missouri State Fleet
Average Fleet Fuel Economy of Hybrid versus
Other Gasoline Vehicles (MPG)



Throughout FY 2022, Missouri Department of Transportation (MoDOT), the University of Missouri, and the Department of Public Safety (DPS) were the only agencies reporting biodiesel usage. MoDOT's on-site access to biodiesel fuel was a significant factor in their biodiesel consumption.

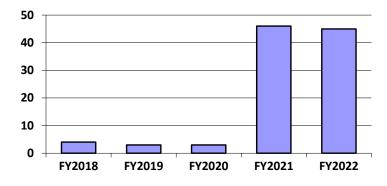
Figure 3 - Missouri State Fleet
Biodiesel (B20) Used in Diesel Vehicles
(gallons)

1,000,000

FY2018 FY2019 FY2020 FY2021 FY2022

Figure 4 shows the percent of alternative fuel used by the state in alternative fuel vehicles over the past five years. This number does not include the alternative fuel used in exempt AFVs and the biodiesel used in exempt diesel vehicles. The state fleet consumed 546,830 GGE of alternative fuel in eligible vehicles in FY 2022, which equates to forty-six percent of the total fuel consumption for the included vehicle types. Total alternative fuel consumption, including exempt vehicles, is down 10,388 GGE from FY 2021⁶.

Figure 4 - Missouri State Fleet
Percent of Alternative Fuel Use in Alternative Fuel
Vehicles



⁶ Incorporating FleetWave® for FY21 allowed for a more comprehensive capture of alternative fuel use data.

See Table 4 for the corresponding consumption numbers shown in gallons for gasoline and in GGE for the alternative fuels.

Por	Table 4 Percent of Alternative Fuel Use In Alternative Fuel Vehicles for FY 2022				
Vehicle Fuel Type	Number of Vehicles	GAS/DSL (gal/GGE)	Alternative Fuel in GGE	Total Fuel in GGE	% Alternative Fuel Use
B20 (exempt vehicles)	2,300	3,278,054	1,018,259	4,296,313	24%
E85	2,973	669,790	546,830	1,216,620	45%
E85 (exempt vehicles)	1,440	807,522	65,244	872,766	7%
Propane					
Propane (exempt vehicles)	4	0	795	795	99%
CNG	0	0	0	0	0%
CNG (exempt vehicles)	1	0	0	0	0%
Electric	8	0	0	0	100%
Total (Eligible vehicles only)	2,981	669,790	546,830	1,216,620	45%
Total (Exempt vehicles only)	3,745	4,085,576	1,084,298	5,169,874	21%
Total	6,726	4,755,366	1,631,128	6,386,494	26%

As shown in Table 5, state agencies have AFVs stationed at several locations in Missouri.

Table 5 Number of Alternative Fuel Vehicles Based at Fleet Locations					
	FY'18	FY'19	FY'20	FY'21	FY'22
Jefferson City	1,563	1,513	1,036	1,199	852
Kansas City	395	380	336	459	430
St. Louis	394	358	322	472	447
Other	1,955	1,849	1,613	2,354	2,697
Total	4,307	4,100	3,307	4,484	4,426

IV. Operating Cost

In order to compare the operating cost of AFVs to traditional fuel vehicles, operating cost data submitted by the agencies to the division is converted into an average operating cost per mile. As shown in Table 6 for eligible vehicles, the vehicle operating costs are broken down by maintenance, fuel, and the total cost.

Table 6 Average Eligible Vehicle Operating Cost for FY 2022 (in cents per mile)					
Vehicle Type	Maintenance	Fuel	Total		
Gas Auto	5.7	11.9	17.6		
Gas Truck	12.6	23.9	36.5		
Hybrid Auto	6.7	7.2	13.9		
Hybrid Truck	5.1	11.8	16.9		
Diesel Truck	16.3	55.8	72.1		
E85 Auto	5.4	11.6	17.0		
E85 Truck	5.8	16.9	22.7		
Electric	2.8	14.3	17.1		

Appendices

Appendix A

Federal and Missouri Alternative Fuel Acts: Comparison of Key Provisions

Clean Air Act Public Law 101-549 ⁷	Energy Policy Act Public Law 102-486 ⁸	Missouri Sections 414.400–417, RSMo, 2018
Applicability		
Twenty-two metropolitan areas with populations of 250,000 or more (1980 census) with serious, severe or extreme ozone or carbon monoxide areas.	Metropolitan areas with a 1980 population of 250,000 or more.	All state-owned vehicles throughout the state.
Fleets Subject to Act		
Fleets of 10 or more vehicles which are centrally fueled or capable of being centrally fueled.	Fleets with at least 20 vehicles that are centrally-fueled or capable of being centrally fueled in a metropolitan area; however, this requirement applies only if a fleet also has at least 50 vehicles within the United States.	State-owned fleets with more than 15 vehicles.
Exemptions		
Vehicles that are garaged at a personal residence overnight are to be considered not capable of central fueling. Law enforcement vehicles.	Private fleet vehicles that are garaged at home overnight are exempted. Law enforcement vehicles. The secretary of energy may terminate this exemption.	Off-road vehicles, maintenance and construction vehicles, and transport trailers. Law enforcement vehicles.
Emergency vehicles.	Emergency vehicles.	Emergency vehicles.
Fuels		
Any fuel meeting the emission standard may be used, including reformulated gasoline, clean diesel, ethanol, methanol, propane, electricity, and natural gas.	Alternative fuels include methanol, ethanol, natural gas, propane, biodiesel and electricity. Reformulated gasoline is not considered to be an alternative fuel.	Alternative fuels include 85 percent methanol, 85 percent ethanol, natural gas, propane, 20 percent biodiesel, hydrogen, and electricity. Reformulated gasoline is not considered to be an alternative fuel.

⁷ Clean Air Act, 42 U.S.C. § 7401 (2020).

⁸ Energy Policy Act, 42 U.S.C. § 13201 (2020).

Clean Air Act Public Law 101-549	Energy Policy Act Public Law 102-486	Missouri Sections 414.400 – 417, RSMo, 2018
Weight Limits		
Includes automobiles and trucks up to 26,000 pounds gross vehicle weight.	Includes vehicles with a gross vehicle weight of less than or equal to 8,500 pounds.	For reporting purposes, state agencies are including only those eligible vehicles less than or equal to 8,500 pounds GVWR.
Purchase Requirements		
Beginning with model year 1998.	Standard Compliance Option ⁹ -beginning with designated model year: State fleet – 75 percent of lightduty, non-excluded vehicles acquired must be alternative fuel vehicles.	Acquire vehicles capable of using alternative fuels: 70 percent after Jan.1, 2008. (Section 37.455) By July 1, 2001, 30 percent of fuel used in AFVs must be an alternative fuel.
There are no exemptions provided in the law in the event vehicles or fuel are not available.	The secretary of energy must exempt a fleet if vehicles or fuels are not available.	May reduce any percentage specified or waive requirements upon receipt of certification supported by evidence that: 1) Fuels are not available. 2) Fuels do not meet cost limitations. 3) Fuels do not meet energy conservation or emissions criteria.

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⁹ The Energy Policy Act provides for Alternative Compliance in which covered fleets may obtain a waiver from Standard Compliance to implement petroleum reduction measures in their vehicle fleets in lieu of the AFV-acquisition requirements.

Related Missouri Revised Statutes and Policies Chapter 414

Fuel Conservation For State Vehicles Program Section 414.400 (8/28/2018)

Missouri Revisor of Statutes - Revised Statutes of Missouri, RSMo Section 414.400

Section 414.403 (1/1/1999)

Missouri Revisor of Statutes - Revised Statutes of Missouri, RSMo Section 414.403

Section 414.406 (8/28/2018)

<u>Missouri Revisor of Statutes - Revised Statutes of Missouri, RSMo Section 414.406</u> **Section 414.410 (1/1/1999)**

<u>Missouri Revisor of Statutes - Revised Statutes of Missouri, RSMo Section 414.410</u> **Section 414.412 (8/28/2018)**

<u>Missouri Revisor of Statutes - Revised Statutes of Missouri, RSMo Section 414.412</u> **Section 414.415 (1/1/1999)**

Missouri Revisor of Statutes - Revised Statutes of Missouri, RSMo Section 414.415

Section 414.417 (8/28/2018)

<u>Missouri Revisor of Statutes - Revised Statutes of Missouri, RSMo Section 414.417</u> **Executive Order 95-05 (2/15/1995)**

Governor's Executive Order 95-05 (mo.gov)

Appendix B

Definitions and Unit Consumption Conversion Table of Motor Vehicle Fuels

Exempt vehicles are vehicles operated by state agencies and designated for duties that exempt the vehicles from vehicle fuel efficiency and alternative fuel requirements. These duties include off-road, maintenance, construction, trailer transport, law enforcement, and emergency vehicles. Exempt vehicles also include vehicles that exceed the 8,500 gross vehicle weight rating (GVWR).

Eligible or non-exempt vehicles are those vehicles operated by state agency fleets that are required to meet vehicle fuel efficiency and alternative fuel requirements. Most eligible vehicles are used primarily for commuting from one location to another on established roadways.

Gasoline Gallon Equivalents (GGE) is used as a unit of measure for alternative fuels. GGE is based on the fuel's energy content rather than the at-the-pump unit of measure normally shown in unit volume. An example of this is the comparison of a gallon of E85 to a gallon of gasoline. Because the energy content of E85 is less than that of gasoline, one gallon of E85 is equivalent to 0.7130 gallons of gasoline. As applied throughout this report, check Appendix C for more information on the conversion of alternative fuels from at-the-pump units of consumption to GGE.

As defined by Section 414.400, RSMo, alternative fuels are those motor vehicle fuels that are not substantially unleaded gasoline or diesel and otherwise contribute to potential energy security and environmental benefits. Gasoline gallon equivalent (GGE) is used throughout the report as a unit of measure for alternative fuels. GGE is based on the fuel's energy content rather than the at-the-pump unit of measure, normally shown in unit volume.

Unit Consumption Conversion Table of Vehicle Motor Fuels At-the-Pump Units to GGE

Fuel Type	At-the-Pump Units	BTU/Unit	GGE/Unit
Gasoline	Gallon	115,000	1
E85	Gallon	82,000	0.7130
Propane	Gallon	89,000	0.7739
CNG	Cubic Feet	1,000	0.0087
Diesel	Gallon	130,000	1.1304
Biodiesel (20)	Gallon	128,800	1.1200
Biodiesel (100)	Gallon	124,200	1.0800
Electric	Kilowatt hour	3,413	0.0297

Appendix C

Missouri State Fleet Performance Measurement Tables

Average Fleet Fuel Economy
New Acquisition Passenger Cars C-2
New Acquisition Light-Duty Trucks
Percent Alternative Fuel Vehicles
New Vehicle Acquisitions
Percent Alternative Fuel Usage in Alternative Fuel Vehicles
B20 and Exempt Usage Not Included
B20 and Exempt Usage Included

AVERAGE FLEET FUEL ECONOMY NEW ACQUISITION PASSENGER CARS

MISSOURI STATE FLEET FISCAL YEAR 2022

The CAFE standard for newly built passenger cars is 40.6 MPG. In the following table, the average vehicle fuel efficiency of new acquisition passenger cars is shown for each agency. Passenger cars include both cars and station wagons that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not report acquiring any new passenger cars that were eligible to meet state vehicle fuel efficiency requirements throughout the fiscal year.

MISSOURI STATE FLEET AVERAGE	36.2
LINCOLN UNIVERSITY	25.1
DEPARTMENT OF PUBLIC SAFETY	28.0
DEPARTMENT OF SOCIAL SERVICES	30.8
DEPARTMENT OF INSURANCE (FIN/PR/CREDIT UNIONS)	30.9
UNIVERSITY OF MISSOURI	31.2
SOUTHEAST MISSOURI STATE UNIVERSITY	36.8
DEPARTMENT OF CORRECTIONS	42.4
DEPARTMENT OF TRANSPORTATION	50.5

AVERAGE FLEET FUEL ECONOMY NEW ACQUISITION LIGHT DUTY TRUCKS

MISSOURI STATE FLEET FISCAL YEAR 2022

The CAFE standard for newly built light duty trucks is 26.02 MPG. In the following table, the average vehicle fuel efficiency of all new acquisition light duty trucks is shown for each agency. Light duty trucks include trucks, vans and SUVs that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not report acquiring any new light duty trucks that were eligible to meet state vehicle fuel efficiency requirements throughout the fiscal year.

LINCOLN UNIVERSITY	38.4
DEPARTMENT OF TRANSPORTATION	37.7
DEPARTMENT OF REVENUE	35.1
OTHER STATE ORGANIZATIONS	34.8
DEPARTMENT OF MENTAL HEALTH	34.2
DEPARTMENT OF AGRICULTURE	34.2
DEPARTMENT OF INSURANCE (FIN/PR/CREDIT UNIONS)	33.1
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	32.5
DEPARTMENT OF CONSERVATION	32.2
DEPARTMENT OF SOCIAL SERVICES	31.3
DEPARTMENT OF CORRECTIONS	31.2
OFFICE OF ADMINISTRATION	31.1
UNIVERSITY OF MISSOURI	30.4
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	30.3
DEPARTMENT OF NATURAL RESOURCES	27.4
DEPARTMENT OF PUBLIC SAFETY	26.7
DEPARTMENT OF HEALTH AND SENIOR SERVICES	26.7
UNIVERSITY OF CENTRAL MISSOURI	21.9
MISSOLIDI STATE ELEET AVEDAGE	21 /

PERCENT ALTERNATIVE FUEL VEHICLES OF ALL NEW VEHICLE ACQUISITIONS

MISSOURI STATE FLEET FISCAL YEAR 2022

Agencies that operate less than 16 eligible vehicles are not subject to program acquisition requirements, therefore only agencies that operate greater than 15 eligible vehicles are shown in the following table. At least 70 percent of an agency's fleet vehicle acquisitions over a one year period shall be vehicles capable of using alternative fuels. In keeping with US DOE guidelines, beginning with FY 2014, only one-half credit will be awarded for the purchase of hybrid vehicles.

DEPARTMENT OF CONSERVATION (49)	100%
DEPARTMENT OF SOCIAL SERVICES (10)	43.5%
DEPARTMENT OF INSURANCE (FIN/PR/CREDIT UNIONS) (2)	33.3%
DEPARTMENT OF MENTAL HEALTH (2)	33.3%
LINCOLN UNIVERSITY (1)	25%
DEPARTMENT OF AGRICULTURE (4)	19%
UNIVERSITY OF MISSOURI (12)	15.4%
DEPARTMENT OF CORRECTIONS (2)	4.5%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (0)	0%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (0)	0%
UNIVERSITY OF CENTRAL MISSOURI (0)	0%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (0)	0%
OFFICE OF ADMINISTRATION (0)	0%
OTHER STATE ORGANIZATIONS (0)	0%
SOUTHEAST MISSOURI STATE UNIVERSITY (0)	0%
DEPARTMENT OF NATURAL RESOURCES (0)	0%
DEPARTMENT OF PUBLIC SAFETY (0)	0%
DEPARTMENT OF REVENUE (0)	0%
DEPARTMENT OF TRANSPORTATION (0)	0%
AGENCIES WITH GREATER THAN 15 VEHICLES (82)	33%

PERCENT ALTERNATIVE FUEL USAGE IN ALTERNATIVE FUEL VEHICLES - B20 AND EXEMPT USAGE NOT INCLUDED

MISSOURI STATE FLEET FISCAL YEAR 2022

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400-414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. If no number appears, the agency did not report any alternative fuel usage.

ATTORNEY GENERAL (4,479)*	100%
OTHER STATE ORGANIZATIONS (3,005)	83%
DEPARTMENT OF MENTAL HEALTH (47,883)	78%
DEPARTMENT OF REVENUE (38,390)	75%
DEPARTMENT OF CORRECTIONS (148,551)	62%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (5,970)	60%
DEPARTMENT OF NATURAL RESOURCES(82,111)	48%
DEPARTMENT OF SOCIAL SERVICES (107,133)	44%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (2,009)	39%
MISSOURI STATE UNIVERSITY(2,659)	39%
DEPARTMENT OF AGRICULTURE (40,903)	37%
DEPARTMENT OF INSURANCE (FIN/PN/CREDIT UNIONS) (7,994)	34%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (8,225)	31%
DEPARTMENT OF PUBLIC SAFETY (20,929)	31%
OFFICE OF ADMINISTRATION (18,792)	21%
SOUTHEAST MISSOURI STATE UNIVERSITY (125)	1%
DEPARTMENT OF CONSERVATION (30)	0%
DEPARTMENT OF TRANSPORTATION (29)	0%
NORTHWEST MISSOURI STATE UNIVERSITY (0)	0%
TRUMAN STATE UNIVERSITY (0)	0%
UNIVERSITY OF MISSOURI (0)	0%
MISSOURI STATE FLEET (512,820)	45%

^{*}Total fuel consumption in GGE

PERCENT ALTERNATIVE FUEL USAGE IN NON-EXEMPT AND EXEMPT ALTERNATIVE FUEL VEHICLES – B20 USAGE INCLUDED IN DIESEL VEHICLES

MISSOURI STATE FLEET FISCAL YEAR 2022

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400-414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. If no number appears, the agency did not report any alternative fuel usage.

ATTORNEY GENERAL (4,479)	100%
OTHER STATE ORGANIZATIONS (3,214)	84%
DEPARTMENT OF REVENUE (40,275)	73%
DEPARTMENT OF MENTAL HEALTH (50,366)	69%
UNIVERSITY OF CENTRAL MISSOURI (3,803)	51%
DEPARTMENT OF SOCIAL SERVICES (107,133)	43%
MISSOURI STATE UNIVERSITY (2,659)	39%
DEPARTMENT OF CORRECTIONS (188,589)	38%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS (2,010)	38%
DEPARTMENT OF INSURANCE (FIN/PR/CREDIT UNIONS (7,994)	34%
DEPARTMENT OF NATURAL RESOURCES (88,308)	33%
DEPARTMENT OF AGRICULTURE (46,692)	32%
DEPARTMENT OF HEALTH AND SENIOR SERVICES (8,348)	30%
DEPARTMENT OF PUBLIC SAFETY (25,179)	27%
DEPARTMENT OF TRANSPORTATION (1,019,558)	25%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION (6,011)	17%
OFFICE OF ADMINISTRATION (21,618)	17%
SOUTHEAST MISSOURI STATE UNIVERSITY (141)	0%
DEPARTMENT OF CONSERVATION (942)	0%
NORTHWEST MISSOURI STATE UNIVERSITY (0)	0%
TRUMAN STATE UNIVERSITY (0)	0%
UNIVERSITY OF MISSOURI (0)	0%
TOTAL ALT-FUEL VEHICLES (1,846,235)	23%
EXEMPT DIESEL VEHICLES	
DEPARTMENT OF TRANSPORTATION (1,019,558)	27%
TOTAL B20 USAGE (1,272,197)	23%
MISSOURI STATE FLEET	23%

^{*}Total fuel consumption in GGE

Appendix D

State Fleet Summary Tables and Fleet Data by State Agency

	Missouri State Fleet	D-3
Electe	d Officials	
	Attorney General	D-4
	Secretary of State	D-5
	State Auditor	D-6
	State Treasurer	D-7
Execut	tive Departments	
	Department of Agriculture	D-8
	Department of Conservation	D-9
	Department of Corrections	D-10
	Department of Economic Development	D-11
	Department of Elementary and Secondary Education	D-12
	Department of Health and Senior Services	D-13
	Department of Higher Education	D-14
	Department of Insurance, Financial Institutions and Professional Registration	D-15
	Department of Labor and Industrial Relations	D-16
	Department of Mental Health	D-17
	Department of Natural Resources	D-18
	Department of Public Safety	D-19
	Department of Revenue	D-20

	Department of Social Services	.D-21
	Department of Transportation	D-22
	Office of Administration	D-23
	Other State Organizations	D-24
ligher	Education	
	Harris-Stowe State University	D-25
	Lincoln University	D-26
	Missouri Southern State University	D-27
	Missouri State University	D-28
	Missouri Western State University	D-29
	Northwest Missouri State University	D-30
	Southeast Missouri State University	D-31
	Truman State University	D-32
	University of Central Missouri	D-33
	University of Missouri	D-34

			-						
Vehicle Type	Description	Number o	of Vehicles	Miles Traveled	Fuel Cons (at-the-pu		Cost		
Type		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative	Maintenance
Gasoline	Cars and Station Wagons	157		1,054,607	39,450		\$125,379		\$59,908
	LDTs, Vans and SUVs	807		3,047,592	214,688		\$715,681		\$384,322
	Exempt Vehicles	1,355	1,303		1,985,712		\$5,227,667		\$2,561,405
Hybrid	Cars and Station Wagons	27		213,452	4,952		\$15,468		\$14,371
	LDTs, Vans and SUVs	9		45,342	1,594		\$5,344		\$2,318
	Exempt Vehicles	1	0		0		\$0		\$471
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	11		99,368	14,421	0	\$55,441	\$0	\$16,173
	Exempt Vehicles	17	2,283		2,900,933	181,832	\$9,784,173	\$578,925	\$9,000,765
E85	Cars and Station Wagons	1,275		14,675,394	294,545	210,175	\$988,863	\$707,663	\$785,377
	LDTs, Vans and SUVs	1,698		18,297,761	375,246	556,768	\$1,259,822	\$1,836,813	\$1,065,569
	Exempt Vehicles	853	587		807,522	91,506	\$2,615,972	\$292,449	\$1,347,380
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	1	0		0	0	\$0	\$0	\$308
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	4		0	1,027	\$0	\$3,285	\$2,136
Electric	LDTs, Vans and SUVs	8		3,479		69*		\$552*	\$99

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^{*}At-the-pump units are cubic feet for CNG; kWh for electric (only 4 out of the 8 electric cars reported consumption and consumption costs); and gallons for gasoline, diesel, E85, and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Consumption (at-the-pump_ units)		Cost			
туре		<= 8500 lbs	> 8500 lbs	raveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons									
	LDTs, Vans and SUVs	6		35,346	107		\$330		\$686	
	Exempt Vehicles									
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
E85	Cars and Station Wagons	15		174,405	0	6,282	\$0	\$21,435	\$9,183	
	LDTs, Vans and SUVs									
	Exempt Vehicles									
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs									

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Vehicle Type	Description	Number o	Number of Vehicles		Fuel Cor (at-the-pu	Fuel Consumption (at-the-pump_ units)		Cost			
туре		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance		
Gasoline	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
Hybrid	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
Diesel	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
E85	Cars and Station Wagons	10		99,848	668	2,991	\$2,376	\$9,812	\$9,494		
	LDTs, Vans and SUVs	5		25,608	140	1,588	\$444	\$5,163	\$6,017		
	Exempt Vehicles										
CNG	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
Propane	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
Electric	LDTs, Vans and SUVs										

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Vehicle	Description	Number of Vehicles		Miles		nsumption ump units)	Cost		
Туре		<= 8500 Pounds	> 8500 Pounds	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
	Cars and Station Wagons								
Gasoline	LDTs, Vans, and SUVs								
	Exempt Vehicles								
	Cars and Station Wagons								
Hybrid	LDTs, Vans, and SUVs								
	Exempt Vehicles								
	Cars and Station Wagons								
Diesel	LDTs, Vans, and SUVs								
	Exempt Vehicles								
	Cars and Station Wagons								
E85	LDTs, Vans, and SUVs								
	Exempt Vehicles								
	Cars and Station Wagons								
CNG	LDTs, Vans, and SUVs								
	Exempt Vehicles								
_	Cars and Station Wagons								
Propane	LDTs, Vans, and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans, and SUVs								

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STATE TREASURER

VEHICLE OP	ERATIONS	_							Fiscal Year 2022	
Vehicle		Number of Vehicles		Miles		sumption ump units)	Cost			
Туре	Description	<= 8500 Pounds	> 8500 Pounds	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
	Cars and Station Wagons									
Gasoline	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
Hybrid	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
Diesel	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
E85	LDTs, Vans, and SUVs	2		5,967	0	347	\$0	\$1,107	\$190	
	Exempt Vehicles									
	Cars and Station Wagons									
CNG	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
Propane	LDTs, Vans, and SUVs									
	Exempt Vehicles									
All Electric	LDTs, Vans, and SUVs									

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DEPARTMENT OF AGRICULTURE

VEHICLE C	OPERATIONS								Fiscal Year 2022	
Vehicle		Number of Vehicles		Miles	Fuel Consu (at-the-pum		Cost			
Туре	Description	<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	2		0		\$0		\$0	
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	20		24,470	0	\$93,246	\$0	\$4,809	
E85	Cars and Station Wagons	29		386,424	5,197	7,546	\$17,571	\$25,085	\$3,356	
	LDTs, Vans and SUVs	165		2,763,072	64,900	49,822	\$216,951	\$167,731	\$68,544	
	Exempt Vehicles	0	10		2,480	8,119	\$8,079	\$27,484	\$15,568	
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs		_							

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SUMMARY TABLE

VEHICLE OPERATIONS

DEPARTMENT OF CONSERVATION

Fiscal Year 2022

Vehicle Type	Description	Number of Vehicles		Miles Traveled		sumption mp_ units)	Cost			
Type		<= 8500 lbs	> 8500 lbs	Haveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons									
	LDTs, Vans and SUVs	15		92,678	3,905		\$11,856		\$6,067	
	Exempt Vehicles	436	239		530,875		\$1,301,260		\$810,671	
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	129		129,700	0	\$488,243	\$0	\$241,927	
E85	Cars and Station Wagons	6		41,795	1,577	0	\$5,591	\$0	\$7,638	
	LDTs, Vans and SUVs	20		152,216	6,637	42	\$22,287	\$137	\$15,083	
	Exempt Vehicles	344	47		293,851	1,279	\$992,602	\$3,933	\$584,924	
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs									

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DEPARTMENT OF CORRECTIONS

Fiscal Year 2022

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Cons (at-the-pur		Cost			
		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons	2		17,638	511		\$1,771		\$279	
	LDTs, Vans and SUVs									
	Exempt Vehicles	13	16		12,471		\$23,586		\$13,492	
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs	1		2,809	197	0	\$538	\$0	\$684	
	Exempt Vehicles	2	89		136,820	0	\$494,191	\$0	\$163,932	
E85	Cars and Station Wagons	186		2,664,385	66,296	45,398	\$216,378	\$145,203	\$127,386	
	LDTs, Vans and SUVs	237		3,746,914	23,250	162,948	\$78,156	\$539,909	\$115,398	
	Exempt Vehicles	1	217		59,140	55,040	\$183,020	\$173,598	\$76,760	
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	4		0	1,027	\$0	\$3,285	\$2,136	
Electric	LDTs, Vans and SUVs		_							

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DEPARTMENT OF ECONOMIC DEVELOPMENT

Fiscal Year 2022

Vehicle Type	Description	Number o	of Vehicles	Miles Traveled	Fuel Coi (at-the-pu	nsumption ump_ units)	Cost			
		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons									
	LDTs, Vans and SUVs	1		255	0		\$0		\$45	
	Exempt Vehicles	0	1		23		\$68		\$0	
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
E85	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs									

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DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

Fiscal Year 2022

Vehicle Type	Description	Number of Vehicles		Miles Traveled	Fuel Cor (at-the-pu	nsumption ump_ units)	Cost			
Туре		<= 8500 lbs	> 8500 lbs	Haveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons									
	LDTs, Vans and SUVs	11		76,742	0		\$0		\$0	
	Exempt Vehicles	0	2		0		\$0		\$0	
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	28		21,603	0	\$83,608	\$0	\$0	
E85	Cars and Station Wagons	35		362,964	3,029	6,989	\$10,464	\$24,786	\$13,458	
	LDTs, Vans and SUVs	7		49,507	938	1,384	\$3,789	\$5,408	\$1,590	
	Exempt Vehicles	0	2		77	58	\$285	\$210	\$0	
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs									

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DEPARTMENT OF HEALTH AND SENIOR SERVICES

Fiscal Year 2022

VEHICLE OF						-			Tiscai Teai 202	
Vehicle Type	Description	Number of Vehicles		Miles	Fuel Consumption (at-the-pump_ units)		Cost			
	Description	<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons	4		41,976	1,278		\$4,297		\$2,264	
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	1		122		\$401		\$0	
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	2		774	0	\$2,862	\$0	\$3,473	
E85	Cars and Station Wagons	83		945,571	17,111	10,066	\$57,808	\$34,039	\$3,644	
	LDTs, Vans and SUVs	7		51,559	840	1,469	\$3,013	\$4,889	\$1,498	
	Exempt Vehicles	0	3		951	173	\$3,293	\$651	\$1,148	
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs									

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SUMMARY TABLE

DEPARTMENT OF HIGHER EDUCATION

VEHICLE OPE	RATIONS								Fiscal Year 2022	
Vehicle	Description	Number of	f Vehicles	Miles Traveled		sumption ump units)	Cos	st	_	
Type		<= 8500 Pounds	> 8500 Pounds	raveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
	Cars and Station Wagons	1		13,506	465		\$1,610		\$1,064	
Gasoline	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
Hybrid	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
Diesel	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
E85	LDTs, Vans, and SUVs	2		17,072	217	421	\$826	\$1565	\$1,172	
	Exempt Vehicles									
	Cars and Station Wagons									
CNG	LDTs, Vans, and SUVs									
	Exempt Vehicles									
	Cars and Station Wagons									
Propane	LDTs, Vans, and SUVs									
	Exempt Vehicles									
All Electric	LDTs, Vans, and SUVs									

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DEPARTMENT OF INSURANCE, FINANCIAL INSTITUTIONS AND PROFESSIONAL REGISTRATION

Fiscal Year 2022

Vehicle Type	Description	Number o	f Vehicles	Miles Traveled		nsumption Imp_ units)	Cost		
Туре		<= 8500 lbs	> 8500 lbs	Haveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons	61		664,148	13,251	7,868	\$46,423	\$27,149	\$35,510
	LDTs, Vans and SUVs	14		138,641	2,444	3,344	\$8,363	\$11,382	\$8,174
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

Fiscal Year 2022

Vehicle Type	Description	Number o	of Vehicles	Miles Traveled		nsumption ump_ units)		Cost	
туре		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	5		24,470	703		\$2,337		\$277
	LDTs, Vans and SUVs								
	Exempt Vehicles	5	3		2,887		\$9,635		\$7,397
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	1		145	0	\$527	\$0	\$891
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs	14		147,209	3,188	2,819	\$10,641	\$9,566	\$6,137
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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DEPARTMENT OF MENTAL HEALTH

Fiscal Year 2022

V LI II CLL O									Tiscai icai 2022	
Vehicle Type	Description	Number o	f Vehicles	Miles Traveled -		nsumption Imp_ units)	Cost			
туре		<= 8500 lbs	> 8500 lbs	Haveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	9	13		8,358		\$28,141		\$9,021	
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs	0		120	42	0	\$143	\$0	\$1,915	
	Exempt Vehicles	0	10		4,125	0	\$15,869	\$0	\$11,962	
E85	Cars and Station Wagons	138		729,216	8,165	18,669	\$28,260	\$65,025	\$45,945	
	LDTs, Vans and SUVs	160		977,838	5,124	48,488	\$17,682	\$163,190	\$63,200	
	Exempt Vehicles	0	40		4,775	3,482	\$15,879	\$11,987	\$9,008	
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs							1		

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400-414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417.

DEPARTMENT OF NATURAL RESOURCES

Fiscal Year 2022

Vehicle Type	Description	Number o	f Vehicles	Miles - Traveled -		nsumption ump_ units)	Cost		
туре		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	7		92,908	2,562		\$8,755		\$3,783
	LDTs, Vans and SUVs	0		8,972	1,839		\$6,644		\$3,046
	Exempt Vehicles	2	7		4,278		\$12,372		\$5,069
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs	1		64,412	11,158	0	\$42,186	\$0	\$10,680
	Exempt Vehicles	2	58		48,846	0	\$175,196	\$0	\$79,731
E85	Cars and Station Wagons	30		225,031	2,275	5,096	\$7,594	\$17,249	\$13,159
	LDTs, Vans and SUVs	335		3,323,417	86,669	110,067	\$287,364	\$340,898	\$250,800
	Exempt Vehicles	0	75		38,207	8,691	\$139,591	\$25,434	\$49,182
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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DEPARTMENT OF PUBLIC SAFETY

Fiscal Year 2022

Vehicle Type	Description	Number o	Number of Vehicles			nsumption ump_ units)	Cost		
туре		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs	0		10,197	1,482		\$5,514		\$5,806
	Exempt Vehicles	5	16		6,765		\$23,404		\$6,729
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	1	10		3,129	0	\$11,780	\$0	\$4,170
E85	Cars and Station Wagons	38		568,252	14,558	6,523	\$48,676	\$21,523	\$19,781
	LDTs, Vans and SUVs	79		992,713	31,781	22,830	\$108,564	\$76,405	\$49,314
	Exempt Vehicles	17	27		17,004	5,961	\$56,337	\$20,198	\$15,475
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	1	0		0	0	\$0	\$0	\$308
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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Fiscal Year 2022

Vehicle Type	Description	Number o	f Vehicles	Miles Traveled -		nsumption ump_ units)	Cost		
туре		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	3		1,666	0	\$6,780	\$0	\$2,291
E85	Cars and Station Wagons	38		294,578	8,177	3,407	\$27,493	\$11,409	\$8,662
	LDTs, Vans and SUVs	78		1,124,319	4,815	50,436	\$15,948	\$171,686	\$82,901
	Exempt Vehicles	9	2		116	2,644	\$442	\$9,060	\$6,556
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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Vehicle Type	Description	Number o	f Vehicles	Miles Traveled —		nsumption ump_ units)		Cost	
Туре		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1		4,222	202		\$640		\$244
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	68		18,867		\$64,974		\$45,397
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	2		3,092	0	\$12,468	\$0	\$5,404
E85	Cars and Station Wagons	363		5,311,439	91,738	80,240	\$310,793	\$273,866	\$278,264
	LDTs, Vans and SUVs	177		2,649,514	44,059	70,016	\$149,806	\$237,405	\$129,448
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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DEPARTMENT OF TRANSPORTATION

Fiscal Year 2022

Vehicle Type	Description	Number o	f Vehicles	Miles Traveled		nsumption ump_ units)		Cost	
Type		<= 8500 lbs	> 8500 lbs	Haveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	43		370,421	12,438		\$20,789		\$14,070
	LDTs, Vans and SUVs	41		327,626	17,983		\$46,464		\$24,172
	Exempt Vehicles	644	442		1,058,395		\$2,135,686		\$961,240
Hybrid	Cars and Station Wagons	2		11,073	397		\$277		\$72
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	2	1,764		2,390,545	181,832	\$7,940,718	\$578,925	\$8,153,443
E85	Cars and Station Wagons	76		585,175	20,651	41	\$64,127	\$109	\$5,127
	LDTs, Vans and SUVs	24		174,877	11,248	0	\$33,475	\$0	\$19,773
	Exempt Vehicles	421	92		329,557	1,780	\$1,020,320	\$5,031	\$441,639
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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VEHICLE	OPERATIONS							F	iscal Year 202
Vehicle	Description	Number o	f Vehicles	Miles Traveled		nsumption ump_ units)		Cost	
Туре		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	4		16,031	1,337		\$4,508		\$1,807
	LDTs, Vans and SUVs	0		6,369	1,242		\$4,680		\$1,173
	Exempt Vehicles	4	19		12,284		\$46,658		\$30,743
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	0	11		17,058	0	\$69,212	\$0	\$34,496
E85	Cars and Station Wagons	90		1,459,649	34,889	6,821	\$124,433	\$23,643	\$101,910
	LDTs, Vans and SUVs	118		1,148,162	35,592	19,535	\$127,342	\$67,679	\$93,488
	Exempt Vehicles	2	42		18,219	3,964	\$64,493	\$13,764	\$59,516
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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Fiscal Year 2022

Vehicle Type	Description	Number o	of Vehicles	Miles Traveled		nsumption ump_ units)	Cost		
туре		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1		11,475	124		\$432		\$317
	LDTs, Vans and SUVs	2		48,256	2,007		\$6,761		\$629
	Exempt Vehicles								
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons	11		43,044	49	1,647	\$233	\$5,799	\$2,026
	LDTs, Vans and SUVs	10		72,051	559	2,567	\$1,932	\$8,779	\$3,101
	Exempt Vehicles	0	1		0	293	\$0	\$1,041	\$323
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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At-the-pump units are cubic feet for CNG; kWh for electric; and gallons for gasoline, diesel, E85, and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

State organizations included under the category of other state organizations are the State Offices of the Governor, Lieutenant Governor, Legislature, and Judiciary.

Vehicle Type	Description	Number o	f Vehicles	Miles Traveled –		nsumption ump_ units)	Cost			
туре		<= 8500 lbs	> 8500 lbs	Traveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
E85	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs									

Harris-Stowe State University was unable to provide data to the report.

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Vehicle	Description	Number o	Number of Vehicles			Fuel Consumption (at-the-pump_ units)		Cost			
Type		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance		
Gasoline	Cars and Station Wagons	9		54,861	1,816		\$5,949		\$460		
	LDTs, Vans and SUVs	58		259,229	17,694		\$95,887		\$2,740		
	Exempt Vehicles										
Hybrid	Cars and Station Wagons	4		11,373	344		\$1,229		\$30		
	LDTs, Vans and SUVs										
	Exempt Vehicles										
Diesel	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
E85	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
CNG	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
Propane	Cars and Station Wagons										
	LDTs, Vans and SUVs										
	Exempt Vehicles										
Electric	LDTs, Vans and SUVs										

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MISSOURI SOUTHERN STATE UNIVERSITY

Fiscal Year 2022

Vehicle	Description	Number o	f Vehicles	Miles		nsumption ımp_ units)	Cost		
Type		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
E85	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

Missouri Southern State University was unable to provide data to the report.

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MISSOURI STATE UNIVERSITY

Fiscal Year 2022

Vehicle Type	Description	Number o	Number of Vehicles			Fuel Consumption (at-the-pump_ units)		Cost		
.,,,,,		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons	7		24,128	1,431		\$4,834		\$2,005	
	LDTs, Vans and SUVs	101		310,244	25,391		\$85,380		\$63,191	
	Exempt Vehicles									
Hybrid	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs	1		10,310	289	0	\$915	\$0	\$0	
	Exempt Vehicles									
E85	Cars and Station Wagons	5		6,145	633	592	\$2,205	\$1,528	\$3,912	
	LDTs, Vans and SUVs	17		83,513	3,503	3,137	\$3,137	\$8,338	\$20,759	
	Exempt Vehicles									
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs	4		3,000		53*		\$424*	\$0	

^{*}Missouri State University did not report fuel usage or cost data. Data provided based on average fleet usage

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^{*}At-the-pump units are cubic feet for CNG; kWh for electric (consumption and consumption costs were not reported); and gallons for gasoline, diesel, E85, and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

SUMMARY TABLE

MISSOURI WESTERN STATE UNIVERSITY

VEHICLE OPERATIONS

Section 414.400-414.417 RSMo. Annual Report - Page D-28

Vehicle	Description .	Number of Vehicles		Miles		Fuel Consumption (at-the-pump units)		Cost		
Type		<= 8500 Pounds	> 8500 Pounds	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons	11		66,397	4,306		\$9,473		\$0	
	LDTs, Vans, and SUVs	32		99,846	7,380		\$16,236		\$0	
	Exempt Vehicles	0	8		3,457		\$9,032		\$0	
Hybrid	Cars and Station Wagons									
	LDTs, Vans, and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans, and SUVs									
	Exempt Vehicles									
E85	Cars and Station Wagons									
	LDTs, Vans, and SUVs									
	Exempt Vehicles									
CNG	Cars and Station Wagons									
	LDTs, Vans, and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans, and SUVs									
	Exempt Vehicles									
All Electric	LDTs, Vans, and SUVs									

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NORTHWEST MISSOURI STATE UNIVERSITY

Fiscal Year 2022

Vehicle Type	Description	Number o	Number of Vehicles			Fuel Consumption (at-the-pump_ units)		Cost		
туре		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons	3		2,870	221		\$411		\$482	
	LDTs, Vans and SUVs	30		668	12,388		\$12,494		\$66,523	
	Exempt Vehicles	10	40		11,926		\$22,436		\$19,269	
Hybrid	Cars and Station Wagons	9		23,411	1,006		\$2,266		\$3,064	
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	12		14,140	0	\$31,618	\$0	\$25,994	
E85	Cars and Station Wagons	13		39,729	2,041	0	\$4,107	\$0	\$39,729	
	LDTs, Vans and SUVs									
	Exempt Vehicles									
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs									

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SOUTHEAST MISSOURI STATE UNIVERSITY

Fiscal Year 2022

Vehicle Type	Description	Number o	of Vehicles	Miles Traveled		nsumption ump_ units)	Cost		
туре		<= 8500 lbs	> 8500 lbs	Haveleu	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	5		10,451	313		\$1,180		\$8,381
	LDTs, Vans and SUVs	74		170,026	20,200		\$67,375		\$37,215
	Exempt Vehicles	17	8		4,662		\$16,413		\$16,359
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	3	2		7,733	0	\$2,902	\$0	\$8,774
E85	Cars and Station Wagons	3		4,952	235	0	\$852	\$0	\$1,788
	LDTs, Vans and SUVs	39		111,511	11,012	175	\$36,980	\$455	\$33,078
	Exempt Vehicles	7	4		8,665	22	\$28,000	\$58	\$17,073
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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Exempt vehicles are those vehicles that for reasons given in RSMo 414.400-414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417.

VEHICLE OP	ERATIONS			T	T			F	iscal Year 2022
Vehicle	Description	Number o	Number of Vehicles		Fuel Consumption (at-the-pump_ units)		Cost		
Туре		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	8		86,030	2,461		\$8,129		\$1,539
	LDTs, Vans and SUVs	10		36,759	2,387		\$7,777		\$1,877
	Exempt Vehicles	20	1		2,871		\$8,951		\$0
Hybrid	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Diesel	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles	2	2		4,291	0	\$15,011	\$0	\$4,265
E85	Cars and Station Wagons	2		28,904	648	0	\$2,095	\$0	\$191
	LDTs, Vans and SUVs	6		41,585	1,741	0	\$5,577	\$0	\$2,696
	Exempt Vehicles	1	0		336	0	\$1,018	\$0	\$2,902
CNG	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Propane	Cars and Station Wagons								
	LDTs, Vans and SUVs								
	Exempt Vehicles								
Electric	LDTs, Vans and SUVs								

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UNIVERSITY OF CENTRAL MISSOURI

Fiscal Year 2022

Vehicle Type	Description	Number of Vehicles		Miles Traveled		nsumption mp_ units)	Cost			
.,,,,,		<= 8500 lbs	> 8500 lbs		Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station	2		6,045	275		\$835		\$112	
	LDTs, Vans and SUVs	3		15,671	1,025		\$2,963		\$1,830	
	Exempt Vehicles	16	114		173,783		\$30,364		\$62,710	
Hybrid	Cars and Station									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Diesel	Cars and Station									
	LDTs, Vans and SUVs									
	Exempt Vehicles	0	19		3,192	0	\$11,139	\$0	\$9,814	
E85	Cars and Station									
	LDTs, Vans and SUVs	10		69,210	0	5,334	\$0	\$15,121	\$15,100	
	Exempt Vehicles									
CNG	Cars and Station									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs	1		454		8		\$64	\$99	

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At-the-pump units are cubic feet for CNG; kWh for electric (consumption and consumption costs were not reported); and gallons for gasoline, diesel, E85, and propane. Biodiesel (B100) consumption figures are shown on the summary table under the diesel vehicle categories as the alternative fuels.

UNIVERSITY OF MISSOURI

VEHICLE	OPERATIONS								Fiscal Year 2022	
Vehicle	Description _	Number of Vehicles		Miles		sumption mp_ units)	Cost			
Type		<= 8500 lbs	> 8500 lbs	Traveled	Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance	
Gasoline	Cars and Station Wagons	44		211,178	9,008		\$29,690		\$10,843	
	LDTs, Vans and SUVs	423		1,548,708	99,657		\$337,518		\$170,093	
	Exempt Vehicles	174	303		133,690		\$390,349		\$340,713	
Hybrid	Cars and Station Wagons	12		167,595	3,205		\$10,773		\$8,450	
	LDTs, Vans and SUVs	9		45,342	1,594		\$5,344		\$2,318	
	Exempt Vehicles	1	0		0		\$0		\$471	
Diesel	Cars and Station Wagons									
	LDTs, Vans and SUVs	9		21,717	2,735		\$11,660	\$0	\$2,894	
	Exempt Vehicles	5	121		89,605	0	\$328,803	\$0	\$245,390	
E85	Cars and Station Wagons	43		39,740	3,356	0	\$11,383	\$0	\$15,213	
	LDTs, Vans and SUVs	172		431,286	36,659	0	\$118,263	\$0	\$78,108	
	Exempt Vehicles	51	25		34,144	0	\$102,615	\$0	\$67,306	
CNG	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Propane	Cars and Station Wagons									
	LDTs, Vans and SUVs									
	Exempt Vehicles									
Electric	LDTs, Vans and SUVs	3		25		8*		\$64*	\$0	

^{*}University of Missouri did not report fuel usage or cost data. Data provided based on average fleet usage

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